#include <iomanip>

#include <sstream>

#include "time.h"

using namespace std;

void Time::setHour(int hr) {

hour = hr; // hour is a member var

}

void Time::setMinute(int min) {

minute = min; // minute is a member var

}

int Time::getHour() const {

return hour;

}

int Time::getMinute() const {

return minute;

}

void Time::addHour() { // a private member func

if (hour == 12)

hour = 1;

else

hour++;

}

void Time::addMinute()

{

if (minute == 59) {

minute = 0;

addHour(); // call to private member func

} else

minute++;

}

string Time::display() const {

// returns time in string formatted to hh:mm

ostringstream sout;

sout.fill('0');

sout << hour << ":" << setw(2) << minute;

return sout.str();

}